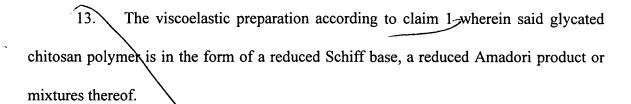


1. A viscoelastic preparation comprising greater than 1 percent by weight of a glycated chitosan polymer dispersed in an aqueous solution, said glycated chitosan polymer having a molecular weight of greater than 100,000 Daltons, said aqueous solution having a viscosity greater than 10,000 centistokes measured at 25° and a pH in the range of 5.5 to 7.5.

- 2. The viscoelastic preparation according to claim 1 wherein said aqueous solution possesses a pH between 6.3 and 7.
- 3. The viscoelastic preparation according to claim 1 wherein said aqueous solution comprises a buffered physiological saline solution of said glycated chitosan.
- 4. The viscoelastic preparation according to claim 1 wherein said glycated chitosan polymer possesses between 30-90% glycation of its otherwise free amino groups.
- 5. The viscoelastic preparation according to slaim 4 wherein said glycated chitosan polymer possesses about 60% glycation of its otherwise free amino groups.
- 6. The viscoelastic preparation according to claim 1 wherein said glycated chitosan polymer has a molecular weight between 100,000 and 2,000,000 Daltons.

The viscoelastic preparation according to claim 1 comprising about nine percent by weight of said glycated chitosan polymer dispersed in said aqueous solution, wherein said glycated chitosan polymer possesses about 60% glycation of its otherwise free amino groups, and said aqueous solution having a viscosity of about 77,000 centistokes.

- 8. The viscoelastic preparation according to claim 1 additionally containing one or more different viscoelastic materials miscible in said aqueous solution.
- 9. The viscoelastic preparation according to claim 8 wherein said different viscoelastic material is selected from the group consisting of hyaluronic acid, chondroitin sulfate and carboxymethylcellulose.
- 10. The viscoelastic preparation according to claim 1 wherein said glycated chitosan polymer comprises a monosaccharide bonded to said otherwise free amino groups.
- 11. The viscoelastic preparation according to claim 11 wherein said monosaccharide comprises galactose.
- 12. The viscoelastic preparation according to claim 1 wherein said glycated chitosan polymer is in the form of a Schiff base, an Amadori product or mixtures thereof.



- 14. The viscoelastic preparation according to claim 1 wherein said glycated chitosan polymer possesses a number of chemically modified monosaccharide or oligosaccharide substituents.
- 15. An eye drop preparation comprising less than 1 percent by weight of a glycated chitosan polymer dispersed in an aqueous solution, said aqueous solution having a viscosity of between 10-100 centistokes measured at 25°.
 - 16. A dried film comprising glycated chitosan.



